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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

SHEET  OF

*Complete if Known*

Application Number: 09/768,413

Filing Date: 1/24/01

First Named Inventor: M. Seul, et al.

Group Art Unit: 1743

Examiner Name:

Attorney Docket Number: PARSE - Con 1

Examiner Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
	5,723,233		Garza et al.	2/1996
	4,806,776		Kley	8/1985
	6,141,046		Roth et al.	10/31/2000
	6,018,350		Lee, et al.	1/25/2000
	6,023,590		Abe, et al.	2/8/2000
	6,025,905		Sussman	2/15/2000
	6,123,263		Feng	9/26/2000
	6,151,062		Inoguchi et al.	11/21/2000
	3,948,525		Cuglia	12/1976
	3,982,182		Hogg	9/1976

## **FOREIGN DOCUMENTS**

Examiner Initials	Foreign Patent Documents			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation
	Office	Number	Kind Code (if known)			

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Examiner Signature		Date Considered	
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Notice of References Cited

Application/Control No.

09/768,410

Examiner

Applicant/Inventor

SEUL, MICHAEL

Art Unit

1743

Page 2 of 12

U.S. PATENT DOCUMENTS

* A	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
A	US-5,747,349	05-1998	van den Engh et al.	438
B	US-5,900,481	05-1999	Lough et al.	538
C	US-6,133,438	10-2000	Koster et al.	538
D	US-6,084,991	07-2000	Sampas	382
E	US-5,442,246	06-1995	Koopal et al.	435
F	US-			
G	US-			
H	US-			
I	US-			
J	US-			
K	US-			
L	US-			
M	US-			

FOREIGN PATENT DOCUMENTS

* N	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
N	WO 99/18434	09/15/99	PCT		
O	WO 99/19515	09/22/99	PCT		
P					
Q					
R					
S					
T					

NON-PATENT DOCUMENTS

* U	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
U	
V	
W	
X	

\* A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.



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FORM PTO-1449

INFORMATION DISCLOSURE CITATION

Attorney Docket: <b>PARSE - con 1</b>	Serial No: <b>6477003</b>
Applicant: Seul et al.	
Filing Date: <b>1/24/01</b>	Group Art Unit: <b>1743</b>

U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Publication Date	Name	Class	Sub-Class	Filing Date
	5,281,370	01/25/94	Asher et al.			
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	5,604,097	02/18/97	Brenner			
	5,800,992	09/01/98	Fodor			
	6,023,540	02/08/00	Walt et al.			
	6,327,410	12/04/01	Walt et al.			
	6,266,459	07/24/01	Walt et al.			
	6,429,027	08/06/02	Chee et al.			

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Examiner Initial	Patent Number	Publication Date	Country	Class	Sub-Class	Translation
	WO 93/02360	02/04/93	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
	WO 96/03212	02/08/96	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
	1,248,873	01/17/89	Canada			<input type="checkbox"/> Yes <input type="checkbox"/> No
	WO 93/06121	04/01/93	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
						<input type="checkbox"/> Yes <input type="checkbox"/> No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, etc.)

	Materials from Freedom of Information Act pertaining to David R. Walt

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Sheet 4 of 12

FORM PTD-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
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ATTY. DOCKET NO.:

SERIAL NO.:

## LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

et al.

FILING DATE:

4/24/01

GROUP:

1743

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4	4	8	8	0	5	2	2/12/85	Fishwyler	422	52	8/30/82
	AB	4	8	4	7	5	4	4	3/3/87	Nicoli et al.	438	518	6/25/85
	AC	4	8	2	2	7	4	8	4/18/89	Walt	438	528	6/25/88
	AD	4	9	8	4	3	7	3	2/18/91	Stavrianopoulos et al.	435	8	7/20/89
	AE	5	0	0	2	8	6	7	3/26/91	Macevitz	435	8	10/24/88
	AF	5	0	2	8	5	4	5	7/2/91	Soini	438	501	6/9/88
	AG	5	1	0	5	3	0	5	4/14/92	Seitzig	359	368	1/10/91
	AH	5	1	1	4	8	8	4	5/19/92	Walt	438	528	9/19/89
	AI	5	1	3	2	2	4	2	7/21/92	Cheung	438	501	11/13/89
	AJ	5	1	3	2	0	8	7	7/21/92	Van Deusen et al.	422	82.09	9/4/90
	AK	5	1	4	3	8	5	3	9/1/92	Walt	438	501	2/7/89

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	AL	0	2	8	8	7	8	4	6/8/88	EP	C12Q	1/68		X
	AM	0	4	7	8	3	1	8	4/1/92	EP	C12Q	1/68		X
	AN	0	7	2	3	1	4	8	7/24/88	EP	G01N	21/84		X
	AO	8	8	1	1	1	0	1	11/16/89	PCT	G01N	33/548		X
	AP	9	3	0	2	3	8	0	2/4/93	PCT	G01N	33/538		X

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AO	Peterson, et al. "Fiber optic pH probe for physiological use," Anal. Chem. Vol. 52, 864-869 (1980).
AR	Peterson, et al. "Fiber-Optic Sensors for Biomedical Applications," Science, 13: 123-127 (1984).
AS	Fuh, et al. "Single Fibre Optic Fluorescence pH Probe," Analyst, 112: 1159-1163 (1987).

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Sheet 5 of 12FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.: PARSE-contSERIAL NO.: 09/768,413

## LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, MichaelFILING DATE: 1/24/01REC-  
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TC 1760

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BA	5 1 8 4 3 0 0	3/16/93	Choung	427	213.31	11/8/93
BB	5 2 4 4 8 1 3	9/14/93	Walt et al.	436	172	4/20/92
BC	5 2 4 4 8 3 6	9/14/93	Walt et al.	422	82.07	1/25/91
BD	5 2 5 0 2 6 4	10/5/93	Walt et al.	422	82.07	12/21/92
BE	5 2 6 2 4 9 4	10/12/93	Walt	436	528	3/30/92
BF	5 2 5 4 4 7 7	10/16/93	Walt	436	172	9/19/91
BG	5 2 8 8 7 4 1	3/29/94	Walt et al.	250	227.23	1/13/93
BH	5 3 0 6 6 1 8	4/26/94	Prober et al.	435	8	1/18/92
BI	5 3 2 0 8 1 4	6/14/94	Walt et al.	422	82.07	11/25/92
BJ	5 3 8 2 6 5 3	11/8/94	Corr et al.	436	185	5/6/92
BK	5 4 0 9 7 8 4	4/11/95	Van Hoegaerden	436	523	2/25/93

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		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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	BL	9	3	0	6	1	2	1	4/1/93	PCT	C07H	2100		X
	BM	9	3	2	4	5	1	7	12/9/93	PCT	C07K			X
	BN	9	7	1	4	0	2	8	4/17/97	PCT	G01N	15/10		X
	BO													
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BD	Barnard, et al., "A fibre-optic chemical sensor with discrete sensing sites," <i>Nature</i> , vol. 352: 336-340 (1991).
BR	Campian, et al., "Colored and Fluorescent Solid Supports," <i>Innovation and Perspectives in Solid-Phase Synthesis</i> , Ed: E. Birmingham (Mayflower, London), pp. 469-472 (1994).
BS	Pope, "Fiber optic chemical microsensors employing optically active silica microcavities," <i>SPIE</i> , vol. 2388: 245-256 (1995).

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SERIAL NO.

*PARSE-CONT*

*09/17/03*

APPLICANT(S): *SEUL, Michael*

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FILING DATE: *1/24/01*

GROUP: *1700*

LIST OF PRIOR ART CITED BY APPLICANT

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CA 5 4 8 0 7 2 3	1/2/98	Kling et al.	428	441	5/17/94
	CB 5 8 1 4 6 2 4	8/28/98	Walt et al.	438	518	12/14/95
	CC 5 4 8 8 9 9 1	3/6/98	Pope	250	227.21	1/2/94
	CD 5 8 1 2 4 8 0	4/30/98	Walt et al.	438	171	8/11/94
	CE 5 8 8 6 3 2 4	10/15/98	Bur et al.	435	6	4/13/94
	CF 5 8 8 7 8 2 7	10/23/98	Lehman	438	518	11/5/93
	CG 5 8 3 3 7 2 4	8/27/97	King et al.	358	445	8/29/95
	CH 5 8 3 3 9 7 2	8/27/97	Walt et al.	385	118	11/29/95
	CI 5 8 6 0 4 8 8	7/22/97	Lam et al.	530	334	6/19/91
	CJ 5 8 8 2 0 5 8	7/29/97	Morgan	428	403	1/25/95
	CK 5 8 7 4 6 9 8	10/7/97	Zelinski et al.	435	7.92	3/30/97

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
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CL					
CM					
CN					
CO					
CP					

OTHER PRIOR ART: *See U.S. Patent No. 5,100,000*

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Sheet No. 7 of 12FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
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SERIAL NO.:

01 (763,41)

## LIST OF PRIOR ART CITED BY APPLICANT

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APPLICANT(S): SEUL, MichaelFILING DATE: 1/24/01

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DA	5 8 9 0 8 9 4	11/25/97	Pinkel et al.	422	88.1	5/23/95
DB	5 7 0 0 8 9 7	12/23/97	Kleiner et al.	528	15	5/30/95
DC	5 7 7 8 9 7 6	7/14/98	Leland et al.	422	52	6/5/95
DD	5 9 3 9 0 2 1	8/17/99	Hansen et al.	422	55	1/23/97
DE	5 9 6 1 8 2 3	10/5/99	Novak et al.	422	88.1	8/30/98
DF	5 9 6 5 4 5 2	10/12/99	Kovacs	436	149	7/9/98
DG	6 0 4 8 8 8 0	4/11/00	Heller et al.	435	8	5/14/97
DH	6 0 9 0 5 4 5	7/18/00	Wohlstadter et al.	435	8	3/6/97
DI	6 0 8 0 8 1 2	7/18/00	Lebl et al.	530	300	11/23/98
DJ	8 2 0 0 7 3 7	3/13/01	Weh et al.	430	320	8/24/95
DK						

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DL							
DM							
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DO							
DP							

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DD	Egner, et al., "Tagging in combinatorial chemistry: the use of coloured and fluorescent beads," Chem. Commun. pp. 735-736 (1997).
DR	Fulton, et al., "Advanced multiplexed analysis with the FlowMatrix system," Clinical Chemistry, vol. 43:9, pp. 1749-1756 (1997).
DS	Scott et al., "Properties of fluorophores on solid phase resins; implications for screening, encoding and reaction monitoring," Bioorganic & Medicinal Chemistry Letters, 7:12, pp. 1567-1572 (1997).

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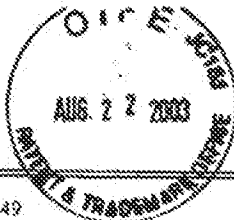
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09/768,413

LIST OF PRIOR ART CITED BY APPLICANT

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APPLICANT(S): SEUL, Michael

et al

FILING DATE: 4/24/01

GROUP: 1743

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	EA						
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	EL							
	EM							
	EN							
	EO							
	EP							

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	EQ	Hraky et al., "Fiberoptic DNA sensor array capable of detecting point mutations," Analytical Biochemistry, vol. 251, pp. 270-279 (1997).
	ER	"Microsphere Selection Guide," Bangs Laboratories, Inc. (Fisher, IN) (September 1998)
	ES	

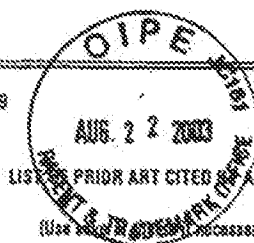
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ATTY. DOCKET NO.: PA 850-101

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APPLICANT(S): SEUL, Michael

FILING DATE: December 12, 2000

1/24/01

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1743

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BA						
BB						
BC						
BD						
BE						
BF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
	BG													
	BH													
	BI													

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BJ	Yeo et al., "Field-Induced Layering of Colloidal Crystals," <i>Science</i> , vol. 272: 706-709 (1996)
BK	Seil et al., "Domain Shapes and Patterns: The Phenomenology of modulated Phases," <i>Science</i> , vol. 267: 476-483 (1995)
BL	Schene et al., "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," <i>Science</i> , vol. 270: 487-470 (1996)
BM	Hsiao et al., "Single Molecule Fluorescence Burst Detection of DNA Fragments Separated by Capillary Electrophoresis," <i>Analytical Chemistry</i> , vol. 67 (No. 18): 3253-3258 (1995)
BN	Richetti, et al., <i>J. Physique Lettr.</i> , vol. 45: L-1137 to L-1143 (1984)
BO	Sze, "MIS Diode and Charge-Coupled Device," <i>The Physics of Semiconductors</i> , Chapter 7, pp. 382-430 (2nd Edition) (Wiley Interscience 1991)
BP	
BQ	
BR	

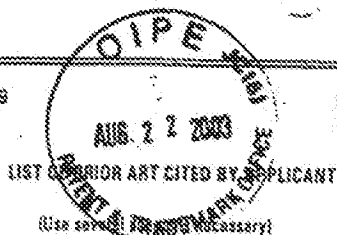
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APPLICANT(S): SEUL, Michael

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	3 8 8 8 5 2 5	12/21/78	Siglla	350	180	08/21/75
AB	4 0 7 5 0 1 3	02/21/78	Ward et al.	96	1.5	09/13/76
AC	4 4 5 6 5 1 3	06/26/84	Kowal et al.	204	180	08/25/82
AD	4 5 7 5 4 0 7	03/11/86	Dollar	204	67	10/24/84
AE	4 5 9 1 5 5 0	05/27/88	Hafeman et al.	435	4	04/05/84
AF	5 4 4 4 3 3 0	08/22/85	Leventis et al.	313	508	02/18/83
AG	5 5 8 7 1 2 8	12/24/86	Widing et al.	422	60	11/14/84
AH	5 4 9 8 3 9 2	03/12/86	Widing et al.	422	58.1	09/18/84
AI	5 8 5 5 7 5 3	01/05/89	Trau et al.	204	484	11/26/86
AJ	8 0 3 3 5 4 7	03/07/00	Trau et al.	204	622	01/04/99
AK						

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	AL	8	6	0	4	5	4	7	02/15/86	PCT	G01N	27/00		X
	AM													
	AN													
	AO													
	AP													

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AR	Yeh, et al., "Assembly of ordered colloidal aggregates by electric field-induced fluid flow," <i>Nature</i> , vol. 386, 5: 57-59 (1997)
AS	Gierzig et al., "Formation of ordered two-dimensional gold colloid lattices by electrophoretic deposition," <i>J. Phys. Chem.</i> , vol. 97: 6334-6336
AT	Seid et al., "Scale transformation of magnetic bubble arrays: coupling of topological disorder and polydispersity," <i>Science</i> , vol. 282: 558-560 (1993)

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U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 4-1

SERIAL NO.:

APPLICANT(S): SEUL, Michael

FILING DATE: 6/24/01

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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	AC	5	5	8	5	0	6	9	12/17/88	Zanzucchi et al.	422	100	11/10/84
	AD	5	5	9	3	8	3	8	01/14/87	Zanzucchi et al.	435	6	05/31/85
	AE	5	7	2	3	2	1	8	03/03/88	Haugland et al.	428	402	06/07/85
	AF	5	7	4	4	3	0	5	04/28/88	Feder et al.	435	9	08/06/85
	AG	5	8	0	7	7	6	5	08/15/88	Ekins	436	518	05/23/85
	AH	5	8	3	7	5	5	1	11/17/88	Ekins	436	518	12/23/84
	AI	5	8	7	4	2	1	8	02/23/88	Rave et al.	435	8	04/09/86
	AJ	5	8	8	8	8	3	5	11/23/88	Dunlay et al.	435	7.2	02/27/87
	AK	5	0	2	3	5	4	0	02/08/80	Welt et al.	385	12	03/14/87

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	AM	9	8	0	7	9	1	7	03/14/86	PCT	G01N	35/00		X
	AN	9	7	4	0	3	8	3	10/30/87	PCT	G01N	33/543		X
	AO	9	8	0	6	0	0	7	02/12/88	PCT	G03F	7/00		X
	AP	9	8	5	3	3	0	0	11/26/88	PCT	G01N	21/00		X

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

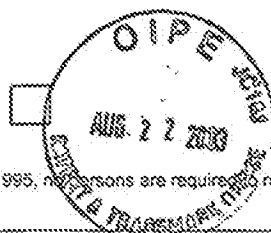
AR	Micheletto et al., <i>Langmuir</i> , vol. 11, 3333-3338 (1995)
AS	Nagayama et al., <i>Phase Transitions</i> , vol. 45, 185-203 (1993)
AT	

EXAMINER

DATE CONSIDERED

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

SHEET 1 OF           

**Complete if Known**

Application Number: 09/748,423  
Filing Date: 12/4/01  
First Named Inventor: M. Sout et al.  
Group Art Unit: 1743  
Examiner Name:             
Attorney Docket Number: PARSE-CO-1700

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Examiner Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
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	6,172,218 B1		Brenner	1/9/2001
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## **FOREIGN DOCUMENTS**

Examiner Initials	Foreign Patent Documents			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation
	Office	Number	Kind Code (if known)			
		WO 00/04372		Anstyn, et al.	1/27/2000	
		WO 99/60170		Bauer, et al.	11/25/1999	
		WO 98/40726		Walt, et al.	2/8/2000	
		WO 00/03004		Feghtler, et al.	1/20/2000	
		WO 00/75373		Walt, et al.	12/14/2000	

Examiner Signature		Date Considered	
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